SEQUENCE LISTING

```
<210> 1
<211> 27
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Erk5-specific
      primer
<400> 1
cagccattcg atgtgggccc acgcta                                    26


<210> 2
<211> 25
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Erk5-specific
      primer
<400> 2
tataacattc tcatggcgga atcgc                                     25


<210> 3
<211> 802
<212> DNA
<213> Mus musculus
<220>
<221> misc_feature
<222> (1)..(38)
<223> partial sequence of exon 2 from Erk5 gene
<400> 3
cggnacctac tgtgccctat ggaggaattc agatctgtgt aagggagtgg gccaggagga 60
ggagacacag tcgggatcag cttagaagcc caggttcagt aatactgaag ttctggcagg 120
gcggttgaac ccagagtgat gcgggctgtg agtccaggac attggtaggg acagttctta 180
tctctcaaga gggcaagggc tggggatgtc gatcactggt aggctgatga gcatctttga 240
ggttttaggt tgactctcct gtacaaaagg ggaaaagaat caagaggatt tacctcttta 300
tggtcatgcc acctttggtt atatcataag ttcaaggcta gtctagaccc tgttccaaaa 360
gacaaaacan aaaaccnaaa cagcaatnta nganaaggga gagagggcnc agacngnccg 420
ggacagatcc aaattgtaag acaacggaca caatacattg tagtgtcaca cagcagtgtc 480
ctcatggcag acaactaatt attcacagaa tacctcctta aaaatagagt cttcaacata 540
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gcttttttcag tagctgttgg caaactgtag agtttgctct aaaattaacc atactggcca 600
atcttggtag atttgaatat ttctataaaa aaaattttt ttgacagaaa ttangtccat 660
ggagaaagtg atttgtcaga aagcttgtaa aaaagtttgg ggctnggaaa aaacccgatt 720
cggtgattaa gatcactcga tcttttaaaa gggacttggc tttaantncc ataatggnct 780
```
5
```
ttcaccgggg ggcntaaact tt                                          802
```

```
<210> 4
<211> 794
<212> DNA
```
10
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<213> Mus musculus
<220>
<221> misc_feature
<222> (1)..(794)
<223> Partial sequence of 3' Erk5-specific primer
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15
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<220>
<221> misc_feature
<222> (547)..(794)
<223> Partial sequence of exon 3 from the Erk 5 gene
<400> 4
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20
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gattnaagat cccctcgatn tttnaaaagg acttggnttc aagggaanag ngtnttnncg 60
ggggnnaact tgaattggga cnccggtgtt gggatcanac tccctctttn ngcctctgta 120
nacccagggc acccaagtag tacacatacg ttcaggaaan catacacata cgtttaagaa 180
aactttataa aagttgtggc cagncggtgg tggcgcatgc ctttaatccc agcactgggg 240
aggcagaggc aggcagatct cttgagtttt gggtttgagg ccaacctggt ctacaagagc 300
```
25
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aagcaagttc caggccagat aaggctacac agacatcttg tcttgaaaaa aagaaagaaa 360
gaatgaaagt tgtagaaaac ctaaaacccg gtgnnnaant ccncncttcc catgntgtta 420
gtcctttggg gtttcactgt aaggccataa cctcaggaat tgggagtgcc aggggacgga 480
gtgccagggg gggcttctcc ctgtgatgtg aggaggctag ctcacccgtt tcttcccatt 540
ttcagctatg tggtactgga cctcatggag agcgacctac accagatcat tcactcttca 600
```
30
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cagccgctca ccctggaaca tgtgagatac ttcctgtacc agctgcttcg gggcctcaaa 660
tacatgcact ctgctcaggt catccaccgt gatcttaaac cctctaacct tctggtcaat 720
gagaactgtg agctcaagat cggtgacttt ggaatggccc gtggcctctg tacttccccc 780
tgccgagcac caga                                                   794
```

35
```
<210> 5
<211> 632
<212> DNA
<213> Mus musculus
<220>
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```
<221> misc_feature

<222> (1)..(632)

<223> Partial sequence of Erk5 probe

<400> 5
```

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caatcacggg tntnagntca ggntcaagca tggtgccaat gntgagaggc nactccatgg 60
cacagttcca cttgagccca gggatggcat ctcaacatct ggacacacag gctcactagc 120
cacaggctgc ananaagntg gaacgnattg ttgncgaatg ccctccngtc gtgcatgaaa 180
gtcttcattc tcagccacaa tggcctcctt aatgcgctcc ctggtaaggg cttcacgggt 240
caaaagcaaa gtcaaaaggt ggggcgcaat caggctcatc atcagggtca tggtacttag 300
ccagaagggg tgcgaaggca gcagcagtna gattcgggcn ctgggttcaa ntcgcaccat 360
gcgtcccagc agggagaggg cctggcggtc agcacctggg tatactgtct cccaaggcac 420
aggttgcctt ggtggcaggc tctggatata ggctcgcacc ctttcagccc ccacagcctg 480
aatcacagct ggtgacggag ttcccaacac catcatgatc agctgtaact ggtgcacgta 540
gtttttgcct gggaagagct ggcgccgagc cagcatctca ccaaagatgc agcccacaga 600
ccagaggtcg attgcctgcg gtatactcgt gc                                632
```

```
<210> 6

<211> 617

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<222> (456)..(617)

<223> partial sequence of NheI-EcoRI fragment in targeting construct

<221> misc_feature

<222> (456)..(617)

<223> partial sequence of exon2 from the Erk 5 gene

<400> 6
```

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ggcaggtacc gcgttagnac cnnttatcng aacccnntgt ttntcncagn nnagcnntat 60
ttaaccttgn aaanagtttt tccctgaggc caagatagca natangctcn nnggagnncn 120
aaaaaagttt tgttctaaga ccanngaatn ggcagaatga agtggngaan gattagggag 180
antctggaat gacctnanta tggtgagtag gaaggaaga aggatcagtt aatncagtca 240
caancnnntg ctaactaacg ngcctcctnt ttatgtaagc nattagcanc ngtttcnnga 300
ggcagttgga aattaaaatn ttgatatatg ttacacacag ggccntgcac cacagtaggg 360
acttnatgnn ntntgggntc cagaagagca gtgctgaagg gacctgcagc taacttgaag 420
gtactctctg gtatatgccc ttttcctgct ccccaggcca gcaggtggcc atcaagaaga 480
tacctaatgc ttttgatgtg gtgaccaatg ccaaacggac cctcagggag ctgaagatcc 540
tcaaacactt caaacacgac aatatcatcg ccatcaagga catcctgaag cctactgtgc 600
cctatggaga attcttc                                                617
```